

Figure 1

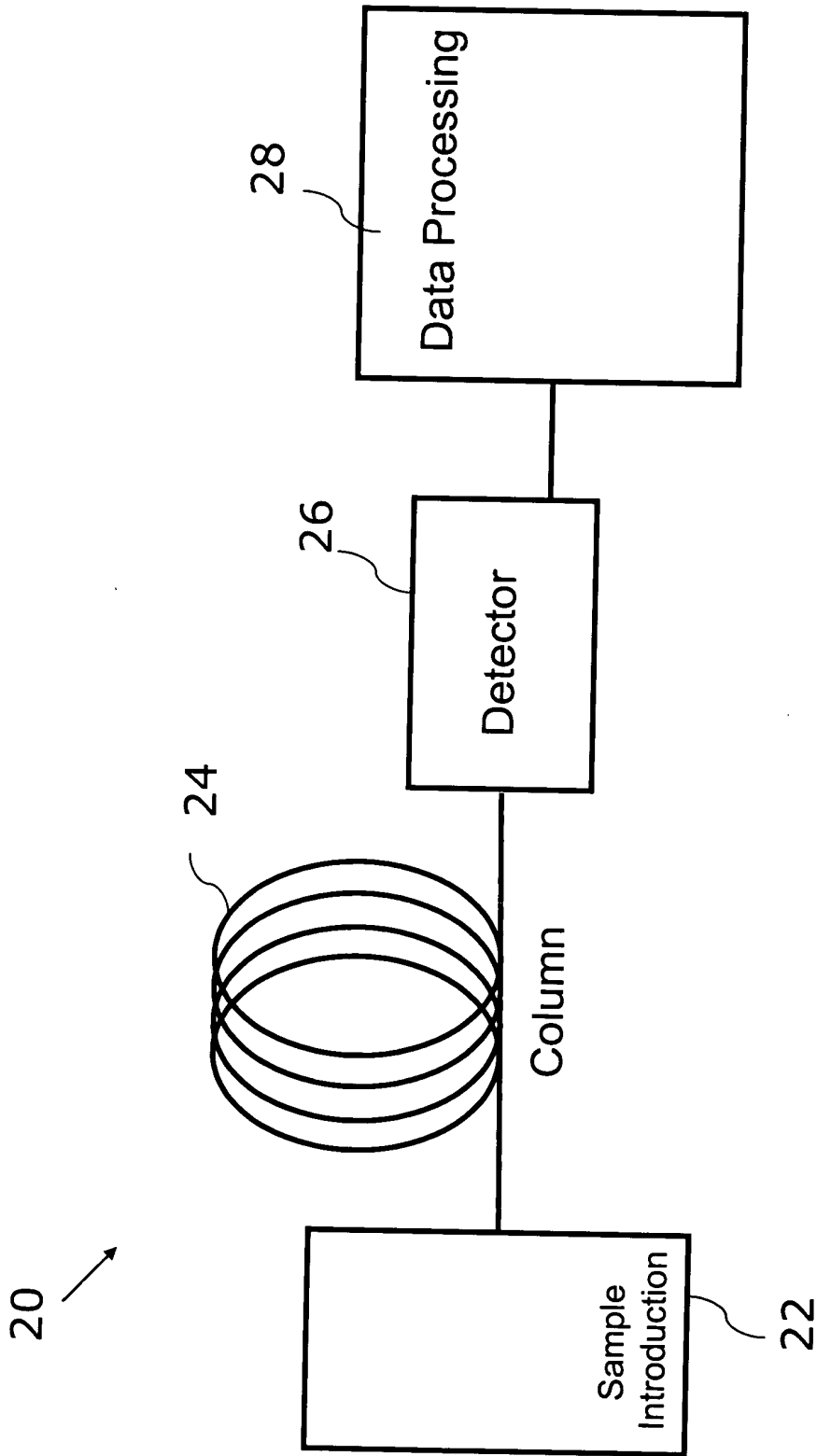


Figure 2

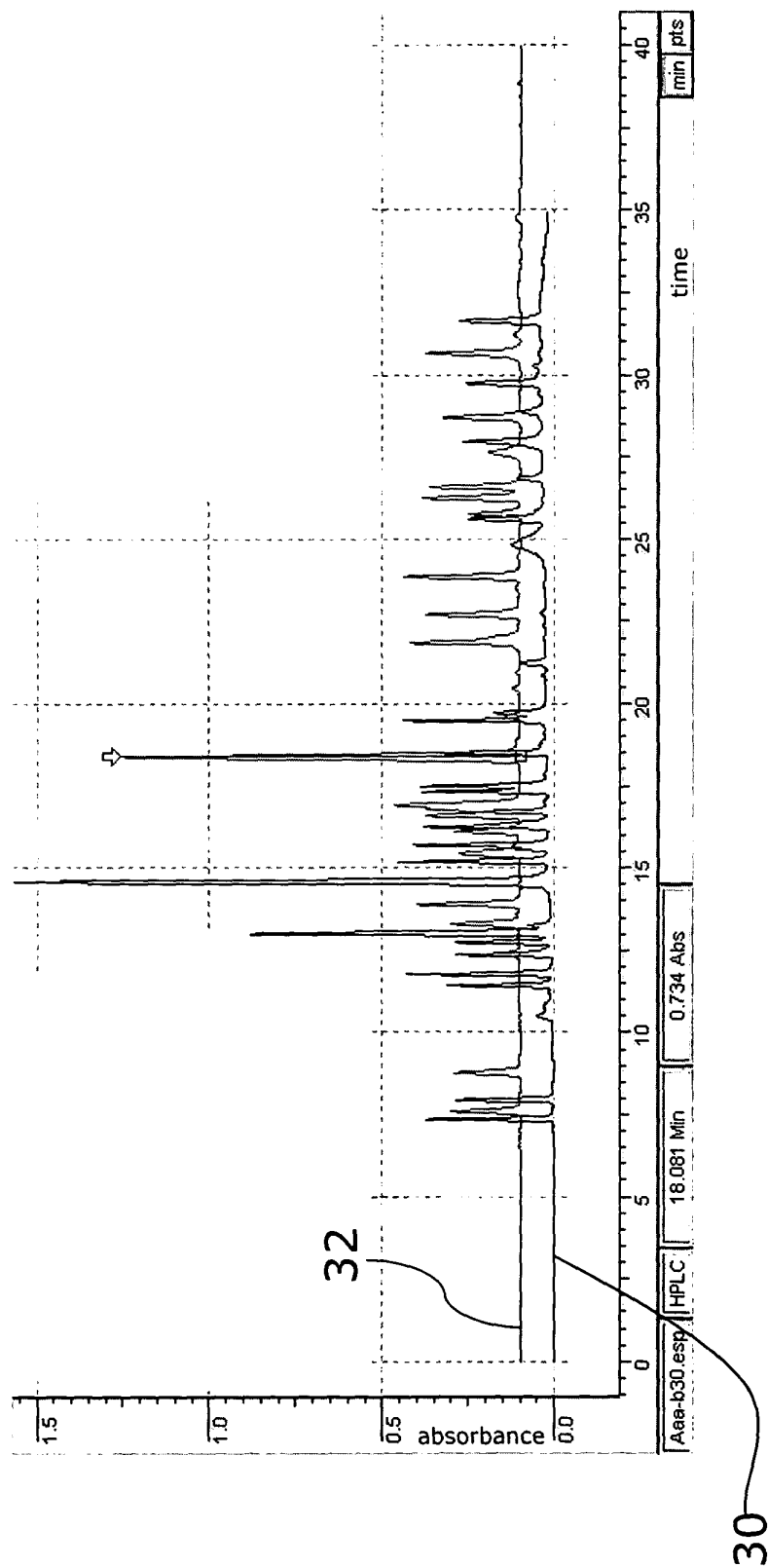
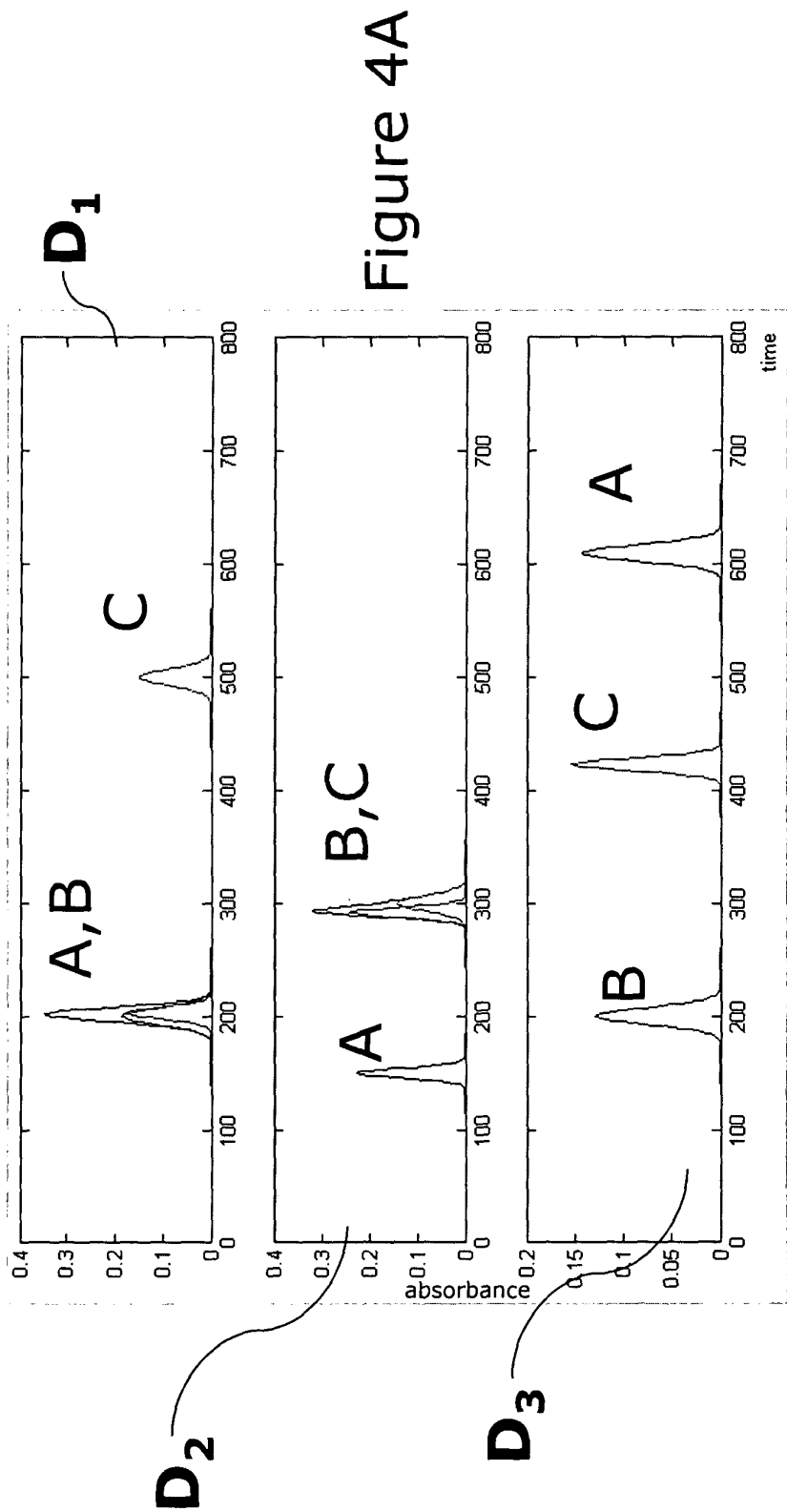


Figure 3



**Figure 4B**

#	Retention times		
	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>
A	200	150	610
B	203	292	200
C	500	300	423

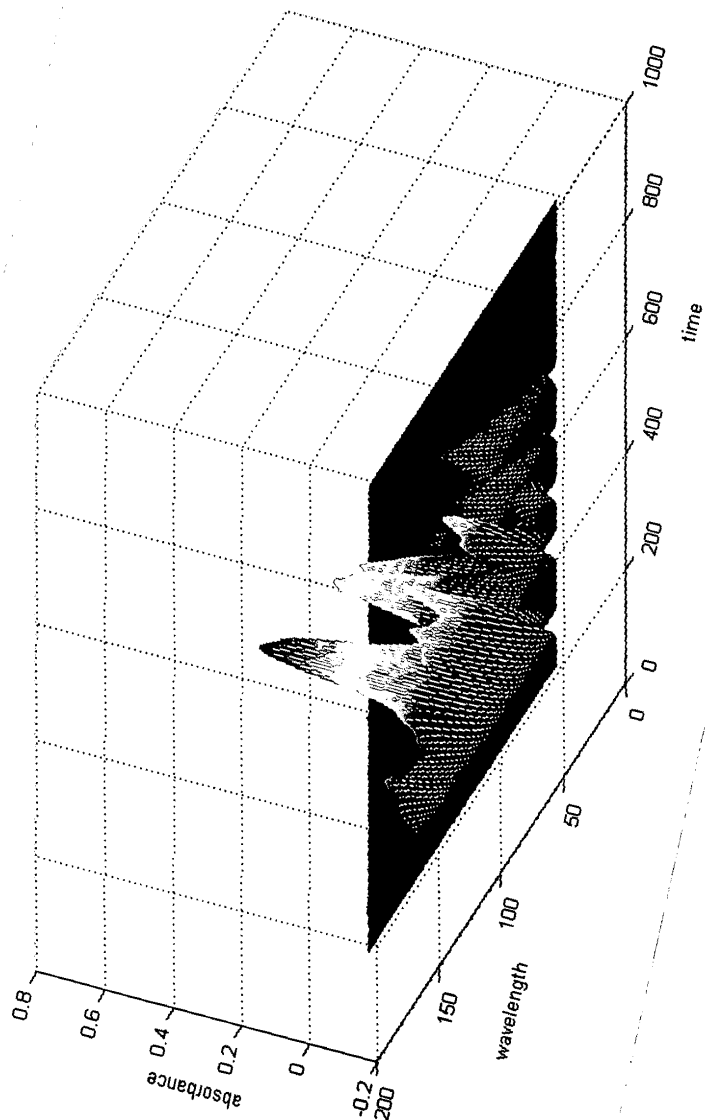


Figure 5A

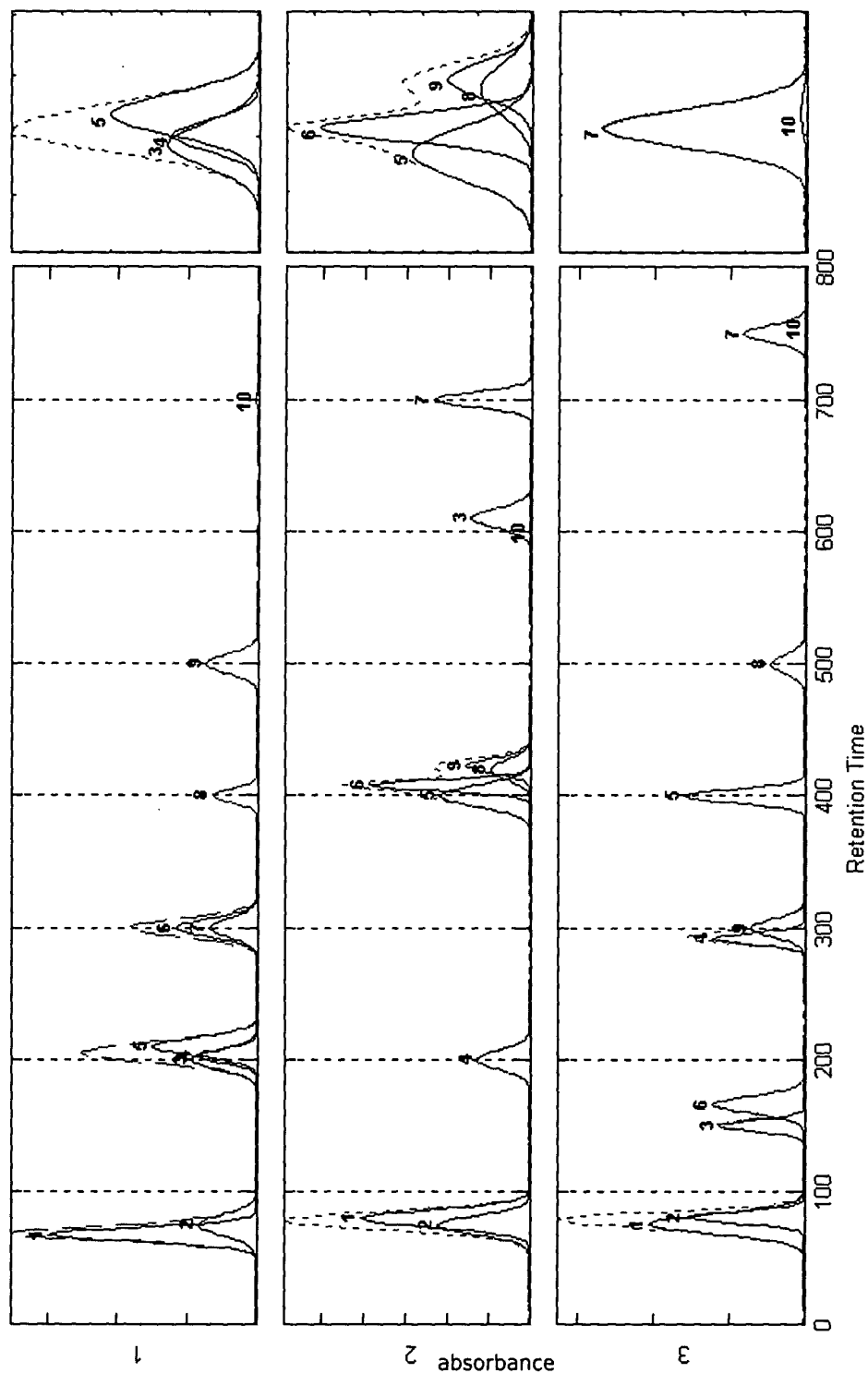


Figure 5B

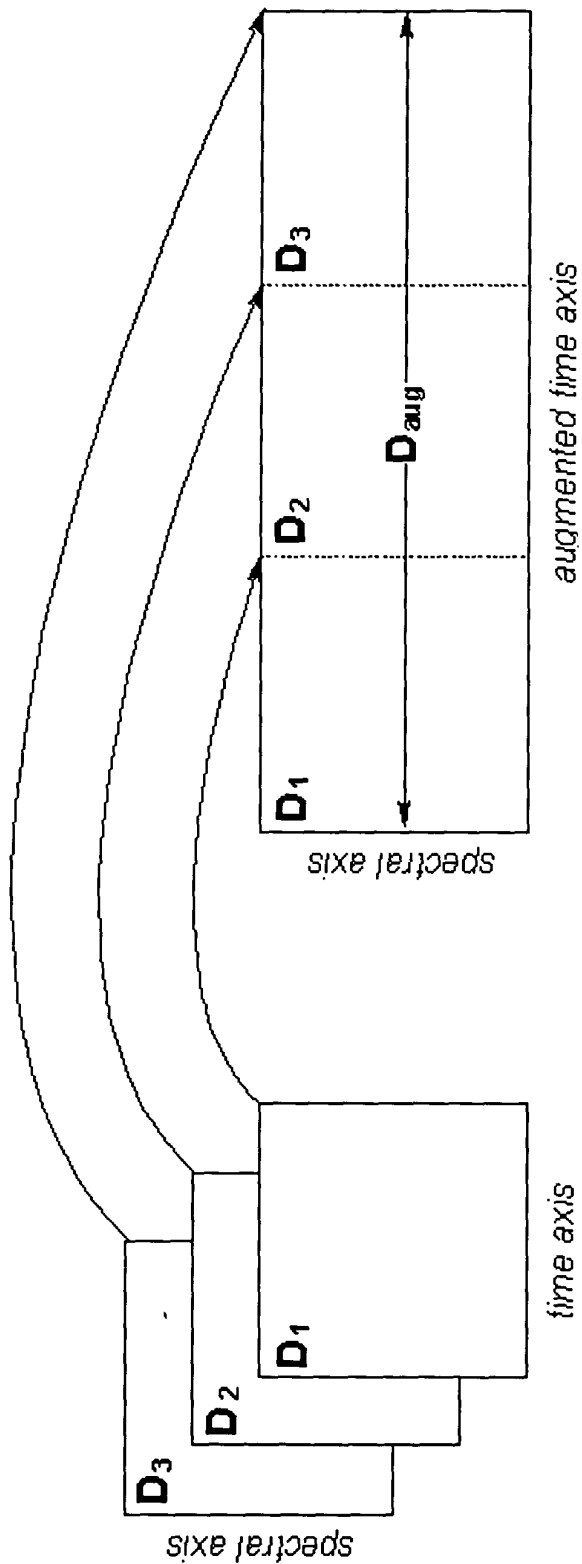


Figure 6

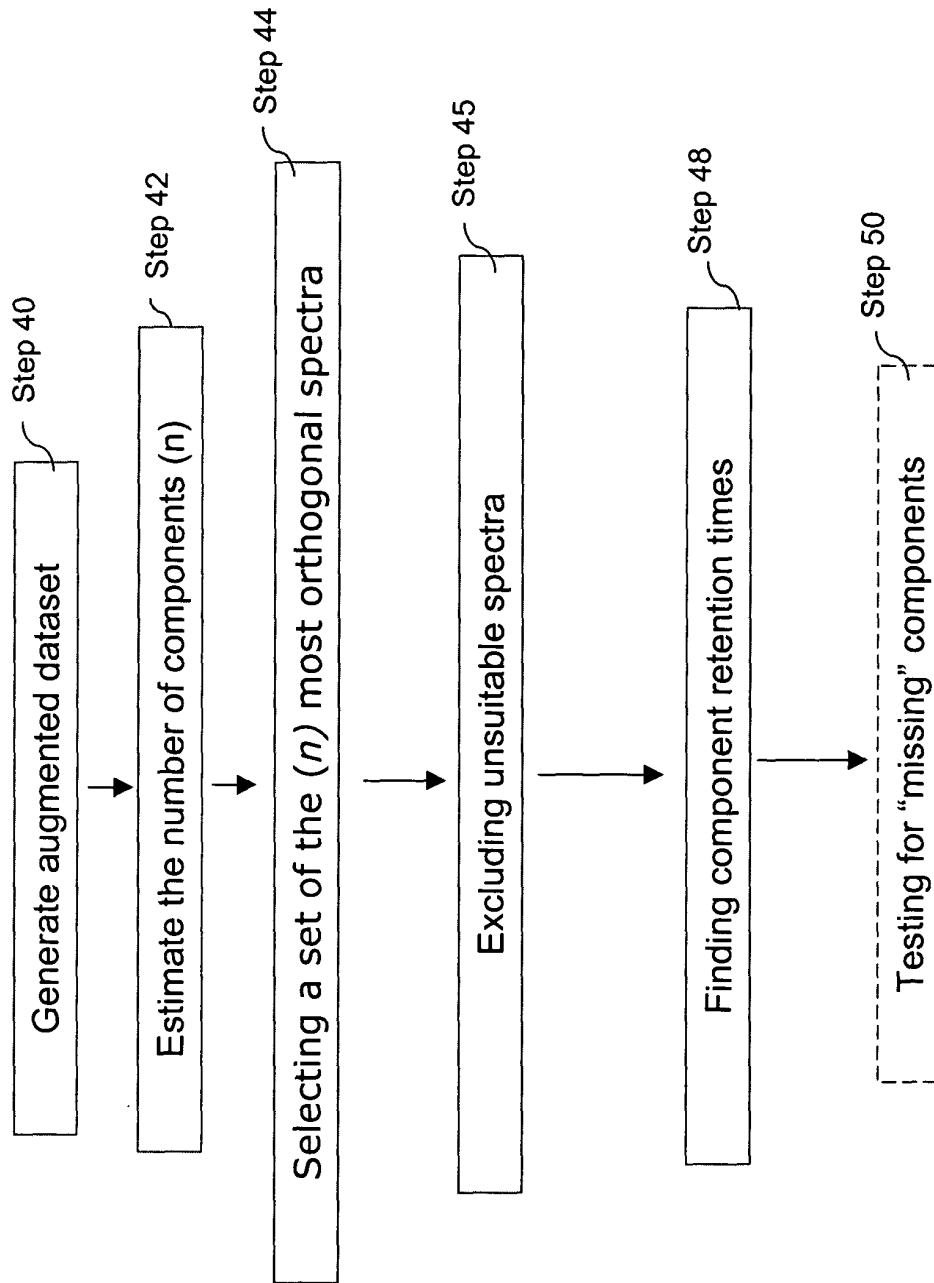
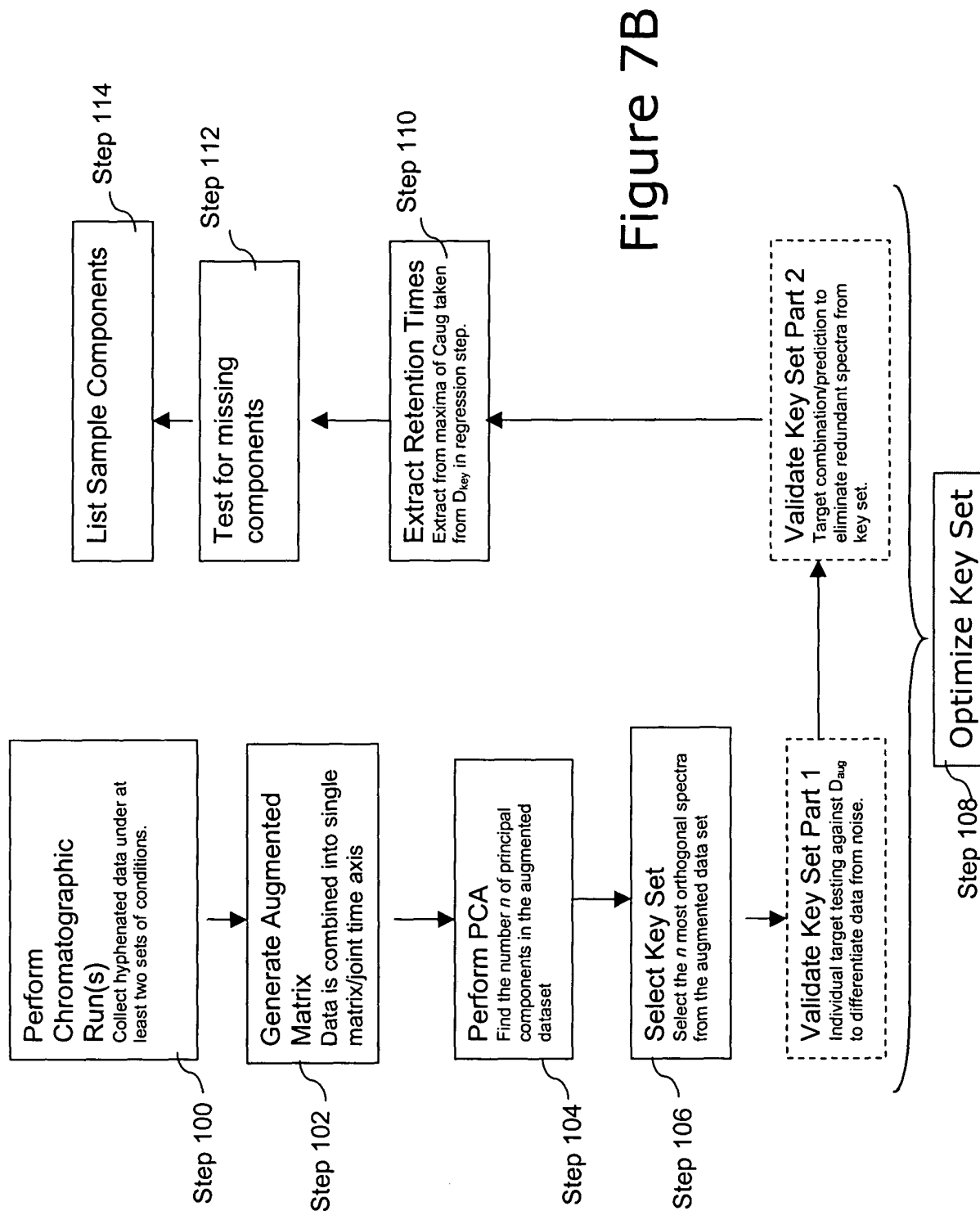


Figure 7A





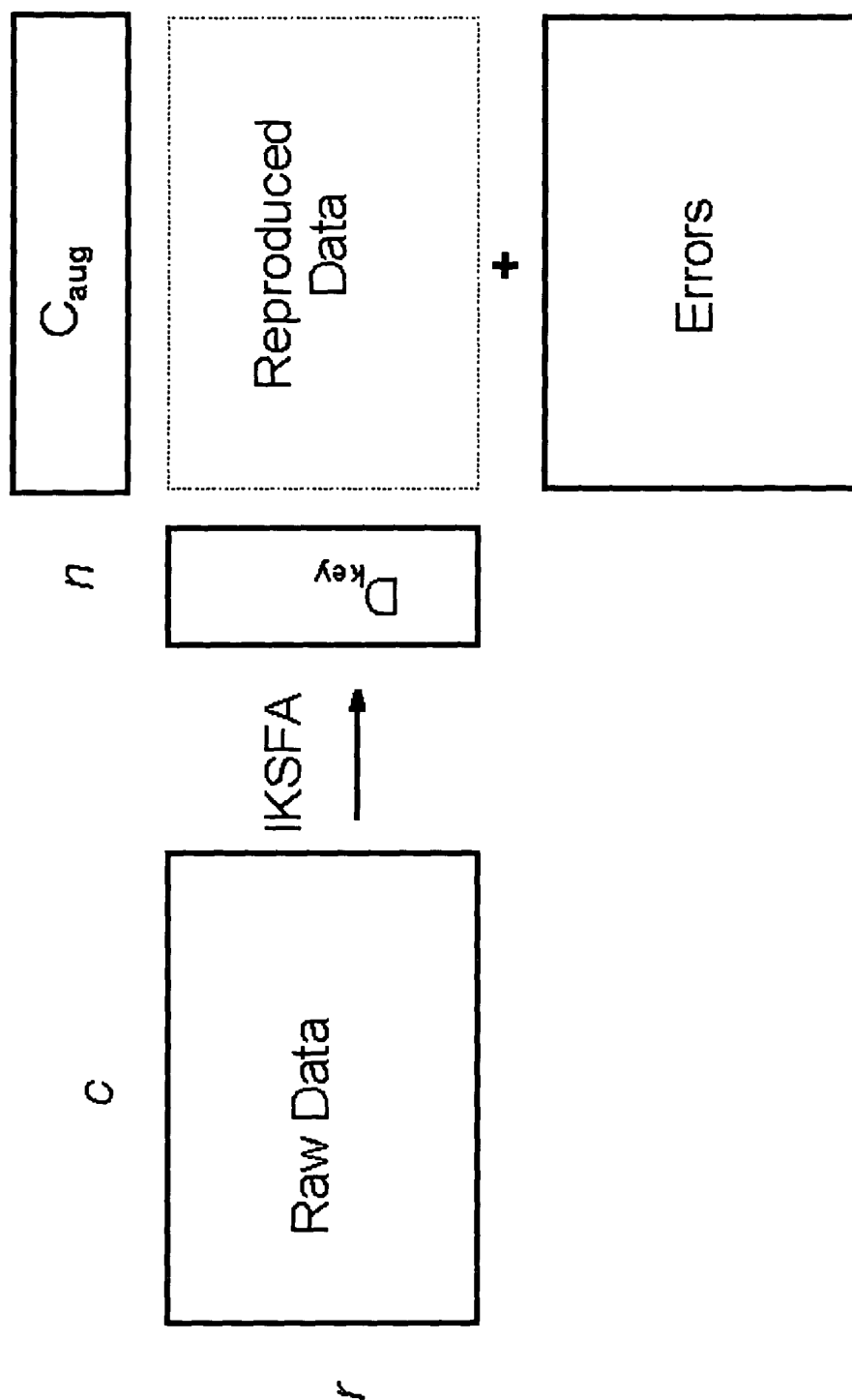


Figure 8

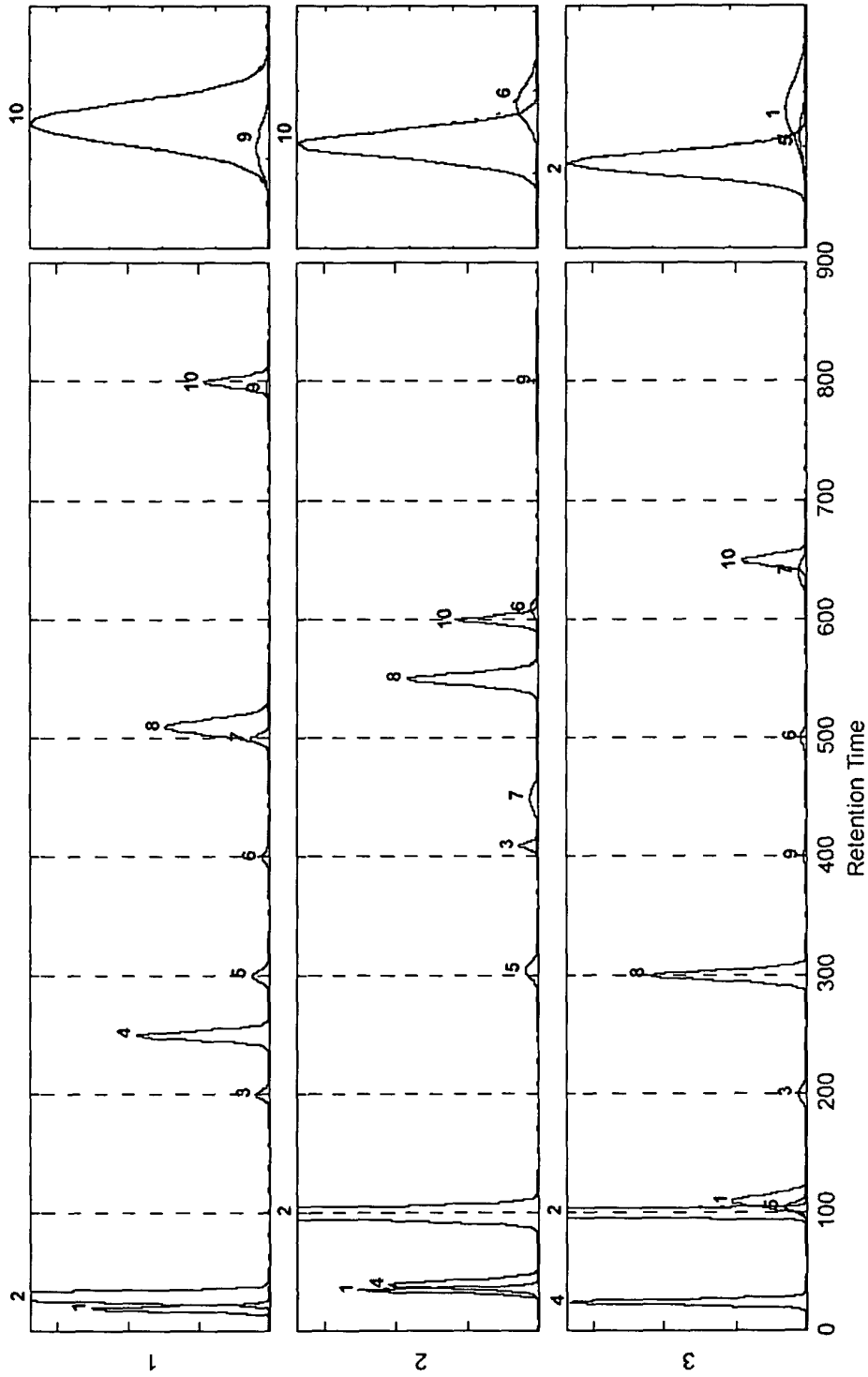


Figure 9A

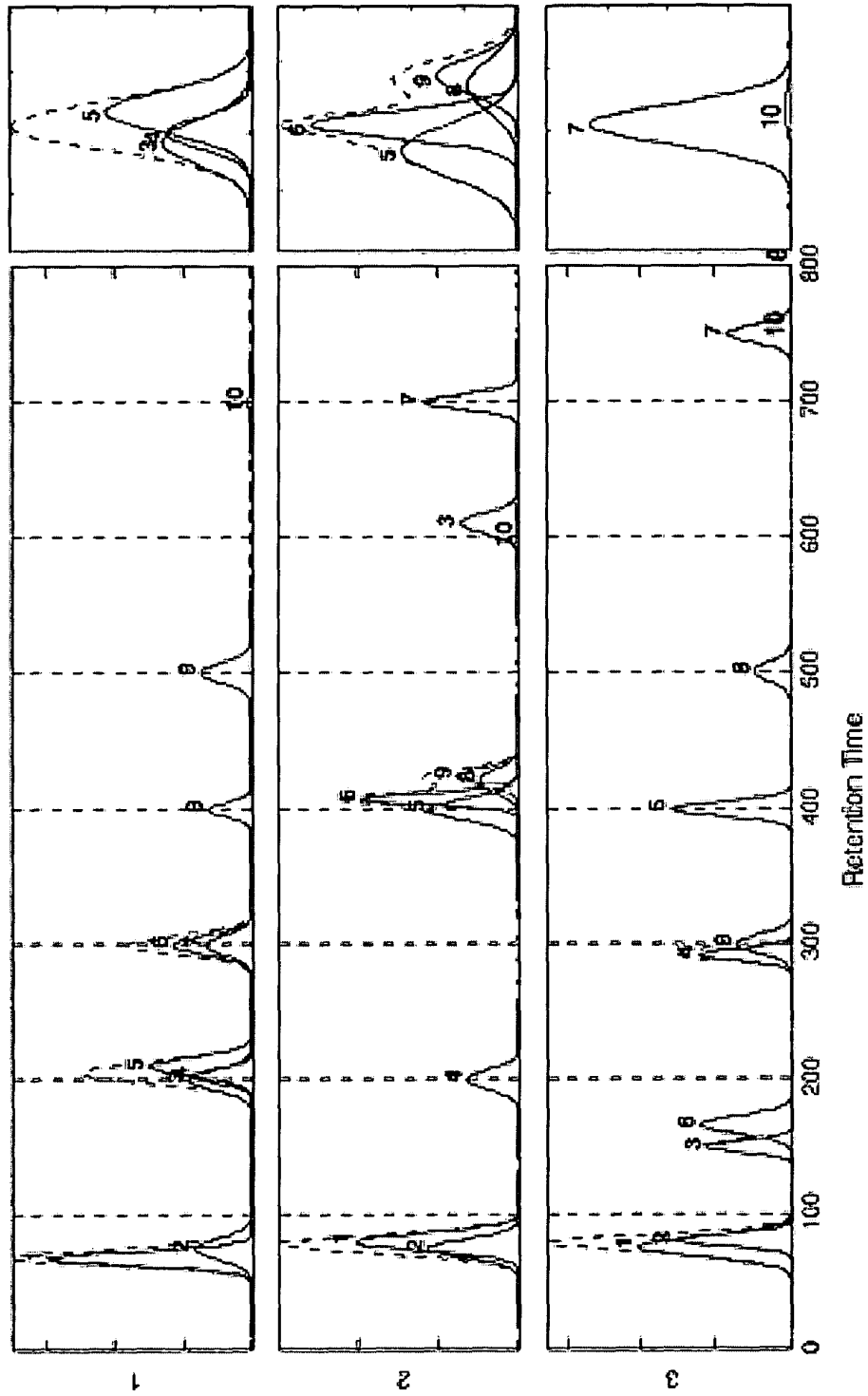


Figure 9B

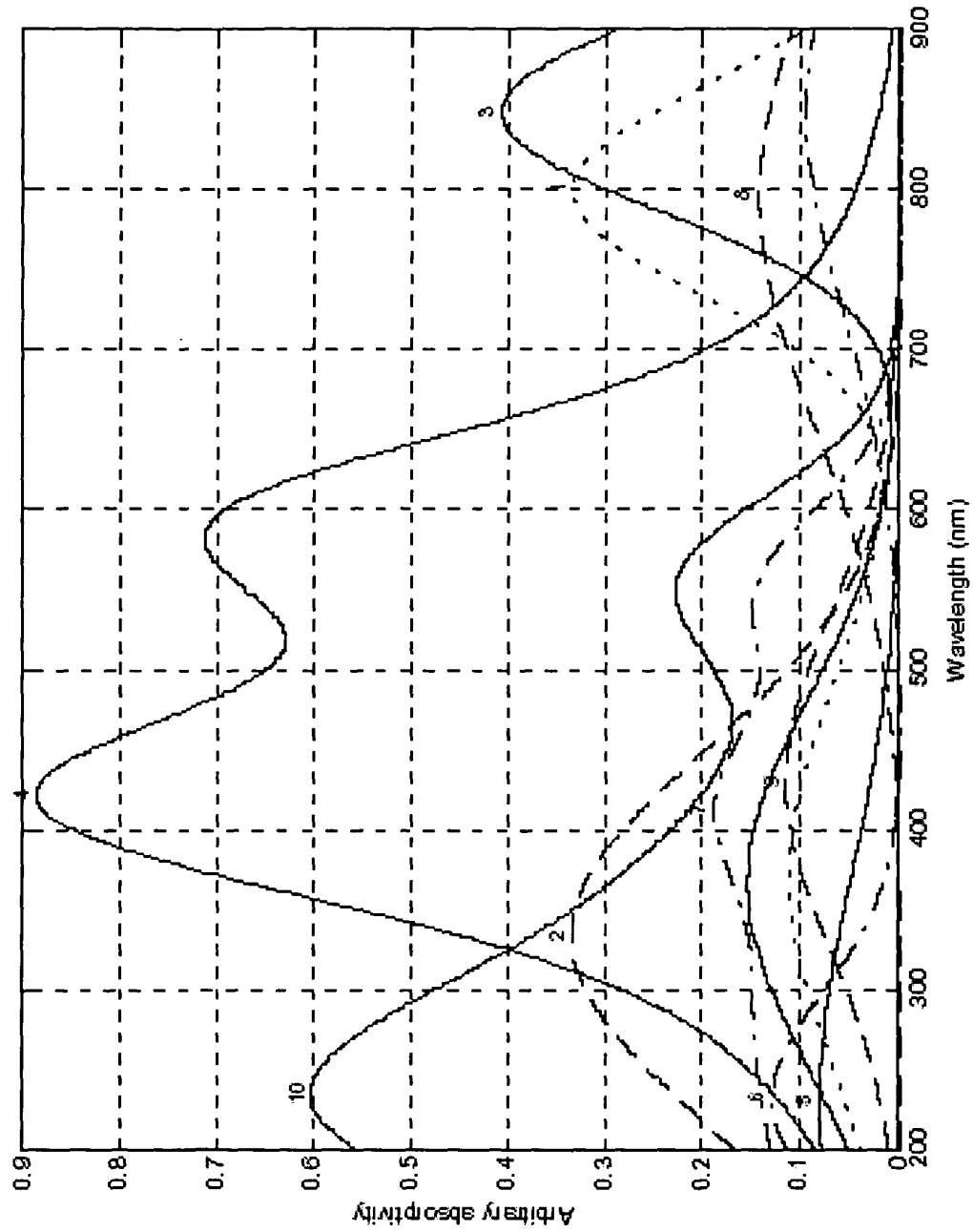


Figure 9C

Figure 9D

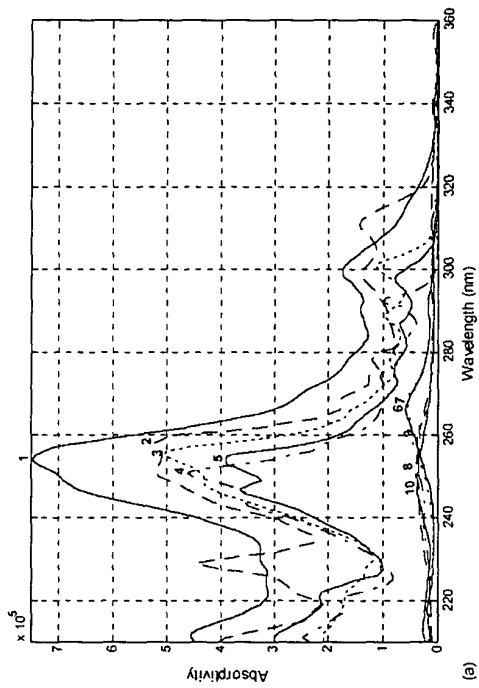
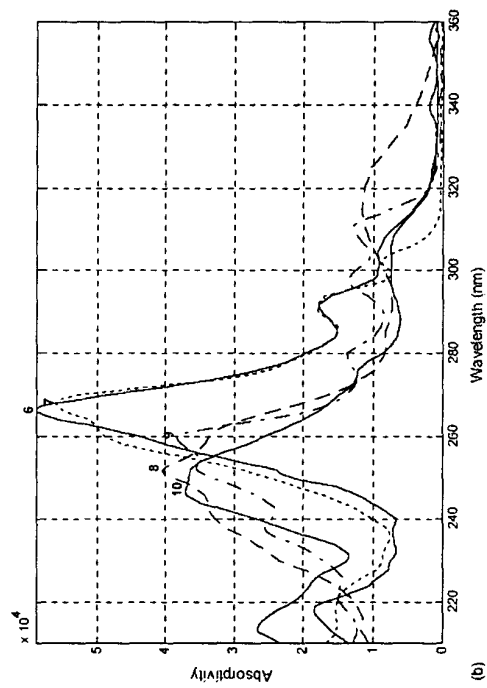


Figure 9E



Absorbivity ( $\text{mol}^{-1} \text{cm}^{-1}$ ) spectra used to build Series B: (1) 9-carboxyphenanthrene; (2) 9-cyanophenanthrene; (3) 9-bromophenanthrene; (4) phenanthrene; (5) 9-acetylaminophenanthrene; (6) 2-acetylaminophenanthrene; (7) 2-acetylaminophenanthrene; (8) 3-acetylaminophenanthrene; (9) 3-acetylaminophenanthrene; (10) 3-hydroxyphenanthrene. (a) Spectra 1-10; (b) spectra 6-10.

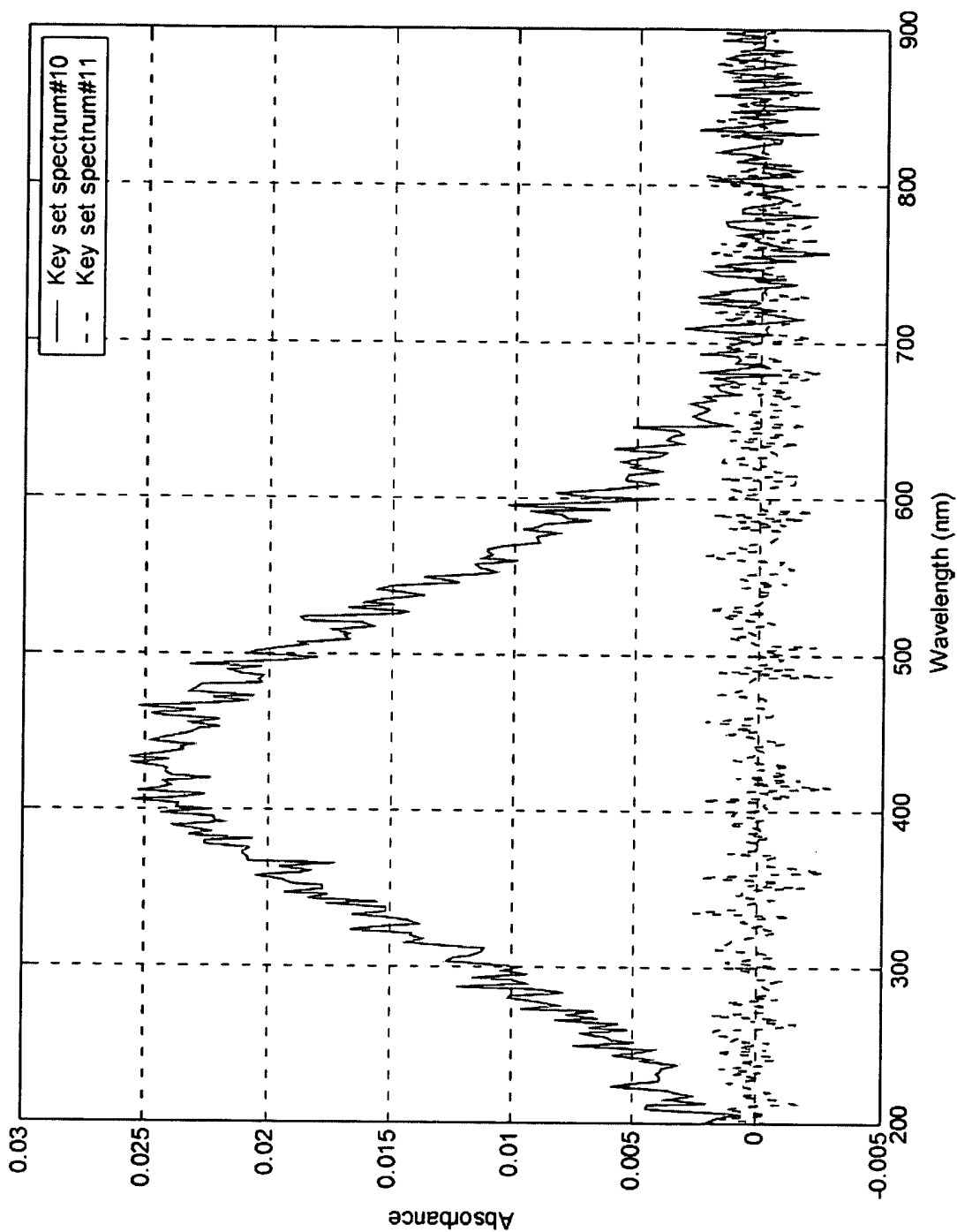


Figure 9F

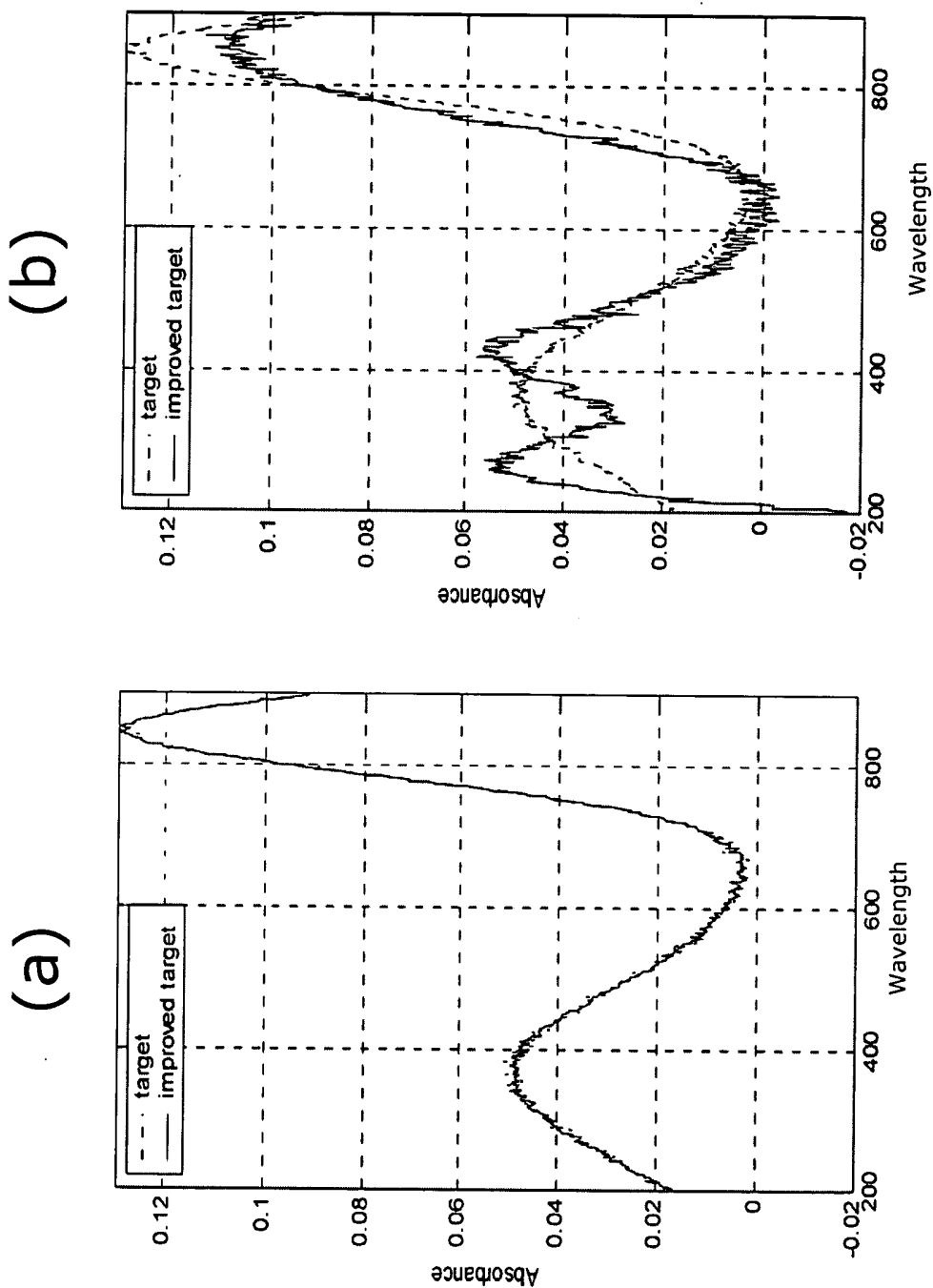


Figure 9H

Figure 9G



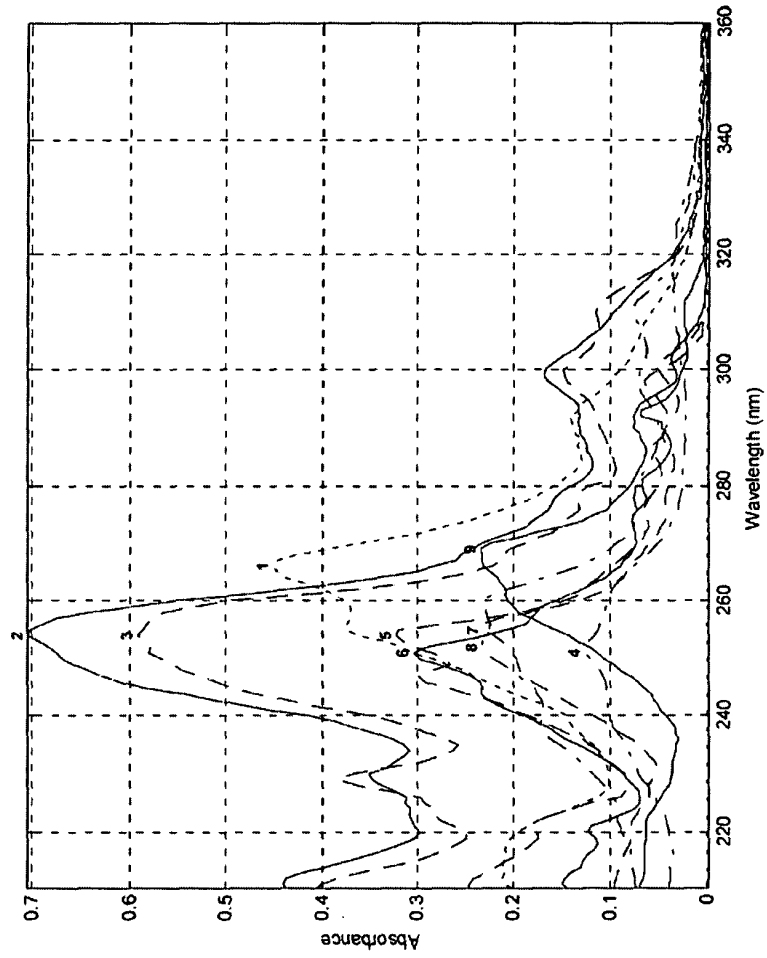


Figure 9I

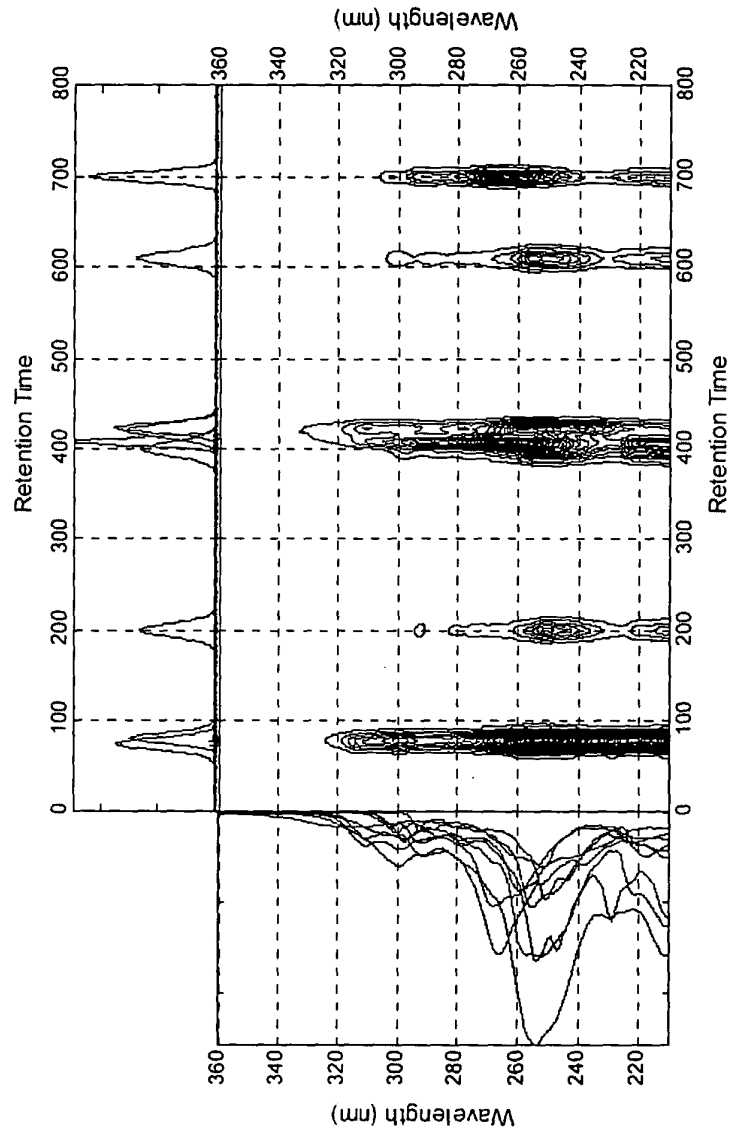


Figure 9J